

**TETRA TECH, INC.**

4213 State St., Suite 205  
Santa Barbara, CA 93101  
Telephone (805) 681-3100  
FAX (805) 631-3108

Project: **Vandenberg AFB IRP**  
Log of Well No. **31-MW-3**

Location: **OU4 Site 31/Missile Silo 576-C, immediately west of concrete retention pond.**

Date Started: **12/3/93** Completed: **12/6/93**

Logged By: **J. Rohrer** Checked By: **R. Horwath, RG**

Drilled By: **A. Simones, S/G Testing**

Drilling Equipment: **CME 75, 8"/10" HSA**

Sampling Equipment: **2" ID Split-spoon**

GS Elev.: **179.2** ft above MSL TD: **28.5 ft** bgs

4" PVC Blank Casing: from **0** ft bgs to **7** ft bgs

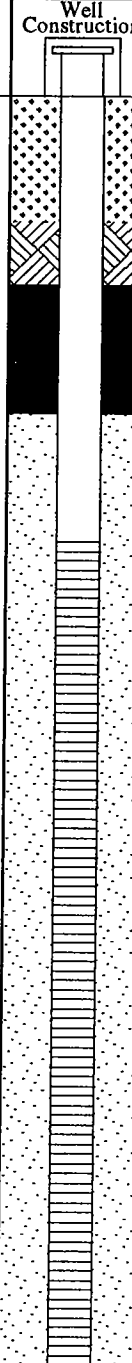
**.020** " Screened Casing: from **7** ft bgs to **27** ft bgs


Bentonite/Cement Grout: from **2** ft bgs to **3** ft bgs


Bentonite Transition Seal: from **3** ft bgs to **5** ft bgs

**#3** Sand Filter Pack: from **5** ft bgs to **28.5** ft bgs

TOC Elev.: **182.59** ft above MSL

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	<u>sand</u> dark yellowish brown (10YR 4/6), fine grained, trace silt, well sorted, subrounded, loose, moist, dune sand.	SP		2 3 4 5	88	0/1.1	Sample V31MW3-0 sent for chemical tests.
5				2 3 6	100	0/1.5	Sample V31MW3-5 sent for chemical tests.
10	Same, except medium dense.			3 4 7	100	0/1.1	Sample V31MW3-10 sent for chemical tests.
15	Same as above, except very loose, wet.			0 1 1	67		Sample V31MW3-15 sent for physical tests.

12.3 ft bgs  Groundwater depth during drilling

12.0 ft bgs  Groundwater depth after well development on: **12/13/93**

TC Number: **7001-41**

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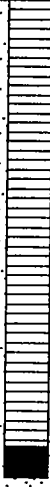
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Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
25	<u>sand</u> dark yellowish brown (10YR 4/6), fine grained, trace silt, well sorted, subrounded, wet, very loose, dune sand.	SP						Unable to sample due to heaving sands from 19.5 to 28.5 ft. bgs.
30								End 1530.
35								
40								